From:

ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC

To:

HertzWu, Sara

Cc: Subject: Christopher Gallus; Kleffner, Erin

Subject: Date: Re: ADAMAS Reply Lame Deer Lagoon CjG

Attachments:

Tuesday, July 02, 2019 11:09:37 PM B16-N39 Pre-Construction Meeting Minutes for Sludge Removal 5-17-18.pdf

B18072386.pdf

Gmail - Update LD lagoon project tests.pdf

Gmail - Update LD lagoon project president - Killsback.pdf

Hi Sara,

Here is our response.

Our company was as given the directive from NCUC GM Sheri Bement and Northern Cheyenne tribal president Jace Killsback to proceed with sludge removal and application and; a.) NCUC would take the sludge samples or would be responsible for sludge samples, there are several witnesses to this b.) the land the sludge was being applied to belonged to the Tribe a sovereign nation according to Killsback and Bement and was only leased, therefore exempt, Vernon Smalls from NC land Authority and Wayne from northern Cheyenne Environment Department can be called as witness to this c.) the attached pre-construction meeting minutes show clearly that IHS informed NCUC they were responsible for all work and they specifically state at bullet point #4 "NCUC is ultimately responsible for following 503 regulation or requirements d.) despite this breach of duty by NCUC, we attempted to make a good faith effort to comply with the requirements after learning of NCUC'c failure to comply, see attached lab results e.) the land the sludge was applied to was tested and identified by IHS in the bid packet and fixed price agreement and the soil testing was the only test identified by IHS, despite this we took samples f.) the attached email shows we communicated to NCUC and IHS our request that NCUC comply with the requirements, it also show we gave updates on amounts of sludge removed and informed IHS of lab tests despite their claims otherwise g.) see attached email where we reached out to tribal president Killsback to inform him of issue with NCUC.

Please be informed that we have filed an Administrative Tort Claim with DPHHS, submitted under the Federal Tort Claims Act (FTCA) against members of IHS. We believe there may be issue of these individuals using the USEPA as a way to cause harm to our business. AS such, we request the following information;

- 1. How and when did you or the USEPA Region 7 office become aware of the involvement of ADAMAS with this project.
- 2. Have you or anyone from your office been contacted or are you in contact with members or employees of the Indian Health Services regarding this project. (If so, who)

Best regards,

On Fri, Jun 21, 2019 at 12:57 PM HertzWu, Sara < HertzWu.Sara@epa.gov > wrote:

Chris and Nathan: Thank you for your response. The deadline for providing a response to the 308 information request letter is July 2, 2019. If you need another copy of the letter, please let me know.

Regards,

Sara Hertz Wu

Assistant Regional Counsel

EPA Region VII

11201 Renner Boulevard

Lenexa, Kansas 66219

Phone: (913)551-7316

Email: hertzwu.sara@epa.gov

Fax: (913) 551-7925

From: Christopher Gallus < chrisigalluslaw@gmail.com>

Sent: Friday, June 21, 2019 12:15 PM

To: ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC adamas.mt.406@gmail.com; HertzWu, Sara HertzWu.Sara@epa.gov

Subject: Re: ADAMAS Reply Lame Deer Lagoon CjG

Sara,

Thank you for the communication. You are specifically authorized by me to communicate with my client Nathan Pierce, or his spouse Michelle, on this matter. As I do continue to represent him I do ask that I be copied and have an opportunity to provide counsel where circumstances permit or necessitate, but Mr. Pierce is a sophisticated client with respect to these matters and direct communication will facilitate having this matter expedited.

Nathan, please provide the documents to Sara and sign any appropriate certifications or authorization. I'm happy to continue to help, but realize cost considerations are a factor. If you have questions please contact me. If you have a conference or meeting involving legal documents or discussions please feel free to include me.

Thank you, both, Chris

On Fri, Jun 21, 2019 at 10:13 AM HertzWu, Sara < HertzWu.Sara@epa.gov > wrote:

Chris: Thank you for providing that response. However, the documents requested in the CWA Section 308 letter still need to be provided to EPA. EPA is unable to prove the veracity of the claims you are making regarding the waste without the appropriate documentation. If your client does not have those documents, that response must be provided as well, along with a certification as stated in the 308 letter. Failing to respond to the information request is a separate violation of the Clean Water Act.

Further, the reporting requirements under 40 CFR Part 503 apply to any person who prepares sewage sludge that is applied to the land, to any person who applies sewage sludge to the land, to sewage sludge applied to the land, and to the land on which sewage sludge is applied. See 503.10(a). Therefore, your client should have the required records available to provide to EPA.

Your client also contacted me directly. Because he is represented by counsel, I did not return his call. Unless specifically authorized by you, I will only communicate with him through his counsel. If you are no longer his counsel, please advise.

EPA requests that compliance with the CWA Section 308 letter within 10 days. The original letter was sent 10 months ago and we have yet to receive a response. Your client either possesses the documents or he does not. Either way, a response is required.

If you wish to set up a call to discuss, please let me know.

Regards,

Sara Hertz Wu

Assistant Regional Counsel

EPA Region VII

11201 Renner Boulevard

Lenexa, Kansas 66219

Phone: (913)551-7316

Email: hertzwu.sara@epa.gov

Fax: (913) 551-7925

From: Christopher Gallus < chrisjgalluslaw@gmail.com>

Sent: Friday, June 14, 2019 4:48 PM

To: Kleffner, Erin < kleffner.erin@epa.gov>

Subject: ADAMAS Reply Lame Deer Lagoon CjG

Erin,

I apologize, but this is the only manner in which I can provide a response today. When I return to my office I will scan the letter, but the content is the exact same as is being provided here. Thanks, CjG

Chris J. Gallus, Attorney at Law

Law, Elections & Gov't Relations

1423 East Otter Road

Helena, Montana 59602

Ph. 406.459.8676

chrisjgalluslaw@gmail.com

June 14, 2019

Erin Kleffner, Compliance Officer

U.S. EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

RE: Lame Deer Lagoon Desludging and Land Application

Northern Cheyenne Reservation

Dear Ms. Kleffner:

I appreciated receiving your letter of June 11, 2019 regarding my client ADAMAS Construction. We accept your offer to conduct prefiling negotiations and we are providing you the requested information.

Mr. Pierce has previously responded to EPA Region 8 officials. As you will read, it is the position of ADAMAS that the size of the entity involved excluded 503 regulation, as is being asserted. ADAMAS maintains that it complied with EPA regulations and did not violate any provisions of law. To the extent the EPA determines a violation occurred, as explained, it is not a violation by ADAMAS, for reasons provided herein.

Please find a summary of our position prepared by Mr. Peirce. I will instruct him to complete and send his signed Statement of Certification, if you determine one is required. Mr. Pierce is currently traveling and has limited access to technology. We are happy discuss this matter at your convenience.

You should be aware that ADAMAS filed a notice to file tort claims against IHS agents connected with this particular project because these agents engaged in retaliatory acts against ADAMAS and Mr. Peirce. Mr. Pierce has also requested Congressional assistance to resolve matters pertaining to the Lame Deer Lagoon Project, and U.S. Senator Steve Daines is assisting Nathan and I in that regard.

That information provided, we understand your agency is separate and apart from IHS and we certainly intend to participate and comply with any of your applicable regulations. As such, we provide the following information and summary pertaining to your request:

SUMMARY:

The land the sludge was applied to was identified in IHS Bid packet B116N39 and is owned by the Northen Cheyenne Nation and is leased by the Northern Cheyenne Tribal land Authority to Tom Robinson the leasehold tenant. IHS also gave an estimate of the application rate of the sludge to the land and this information was relayed to Tom before

application. It is important to note that Tom Robinson is the Brother-in-Law of IHS construction inspector George Cummings. (Bid Packet, available upon request)

IHS construction inspector George Cummings was on site when sludge was being applied and can confirm details of how and when it was applied and the manner his brother-in-law, Tom Robinson, complied with the 503 regulations. Tom Robinson was the person or persons who applied the sludge to the land using his own equipment and his is the Leasehold tenant of the property.

The sludge was tested by IHS and the Lab Analytical Report was included in the bid packet. According to the Lab Analytical Report the Sludge, the sewage sludge from the Lame Deer Lagoons meets the most stringent limits for all three of the sewage sludge quality parameters and is referred to as Exceptional Quality (EQ) sewage sludge. (See attached Bid Packet and Lab Analytical Report)

According to the 'EPA Land Application of Sewage Sludge - A Guide for Land Appliers on the Requirements of the Federal Standards for the Use or Disposal of Sewage Sludge, 40 CFR Part 503', "EQ sludge is considered comparable to standard fertilizer products. Therefore, land appliers of EQ sewage sludge have no requirements to meet under the Rule." This would seem to be a clear indication that my client has no requirements to meet from the EPA and does not need to meet any requirements for payment of the application portion of the contract. (See attached EPA Land Application Guide, Page 5)

According to 2.8 Reporting (40 CFR 503.18) The reporting requirements under Part 503 apply to major municipal NPDES permittees and Class I Sludge Management Facilities. Major municipal NPDES permittees are publicly owned treatment works (POTWs) with a design flow rate equal to or greater than 1 million gallons per day and POTWs with a service population of 10,000 people or more. Class I sludge management facilities are usually POTWs that are required to have an approved pre-treatment program under 40 CFR 403.8(a), including any POTW located in a State that has elected to assume local pretreatment program responsibilities under 40 CFR 403.10(e). In addition, the EPA Regional Administrator may use his or her discretion to designate other treatment works treating domestic sewage (TWTDS) as Class I sludge management facilities. Land appliers are not TWTDS unless designated as such by the EPA Regional Administrator. In order to have reporting requirements under Part 503, a land applier must be designated both a TWTDS and a Class I sludge management facility.

Neither my client nor the Lame Deer Lagoons qualify as a POTW and are therefore exempt from reporting under the rule. As such my client should not need to meet any additional requirements for payment of the application portion of the contract. (See EPA Land Application Guide, page 29)

Despite having no requirements to meet under the Rule, my client did relay to Tom Robinson that he should complied with, Vector Attraction Reduction Option 10 (40 CFR 503.33) "Sewage sludge applied to the land shall be incorporated into the soil within 6 hours after application to the land. - When sewage sludge that is incorporated into the soil is Class A for pathogens, the sewage sludge shall be applied to the land within 8 hours after being discharged from the pathogen treatment process." George Cummings IHS Construction inspector also witnessed and ensured this vector attraction reduction option was used.

I appreciate your consideration and your attention to this important matter. Please feel free to call me at your convenience.

Sincerely,

/s/ Chris J. Gallus

Chris J. Gallus

Attorney for ADAMAS Construction

Sent from my iPhone

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Nathan Pierce - Owner/General Manager

ADAMAS Construction & Development Services PLLC PH: 1-406-697-3022
EMAIL: ADAMAS,MT.406@GMAIL.COM
www.biomicrobicsmontana.com
CONTRACTOR REGISTRATION# 228703

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DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service Indian Health Service

Billings Area Indian Health Service 2900 4th Avenue North P.O. Box 36600 Billings, MT 59107

Date:

May 18, 2018

From:

James Courtney, EIT

Subject:

Pre-Construction Meeting Minutes

Project:

BI 16-N39: Lame Deer Lagoon Sludge Removal

To:

Record

A Pre-Construction meeting for the above referenced project was held on Thursday May 17th, 2018 from 1300 to 1500 hours at the Billings Area IHS SFC conference room in Billings, MT. The meeting also addressed the pre-construction of the Northern Cheyenne Scattered Housing work. Quentin Allen led the portion of the meeting covering the pre-construction for the Scattered Housing work.

The following were in attendance:

James Courtney, IHS, Project Engineer

Jim White, IHS SFC Director

Quentin Allen, IHS Engineer

Jason Schneider, IHS Engineer

George Cummins, IHS Construction Inspector

Sheri Bement, Northern Cheyenne Utilities Commission (NCUC) General Manager

Dion Killsback, NCUC Attorney

Nathan Pierce, Subcontractor to NCUC / ADAMAS PLLC

Michelle Pierce, Affiliate of ADAMAS PLLC

In addition to the attached Pre-Construction Meeting Agenda, the following items were discussed:

- I stated that because the project is funded by the EPA, the IHS is restricted for how the funds may be spent.
- I reiterated that NCUC is responsible for the sludge removal work and that IHS's relationship isn't with ADAMAS PLLC for this project.
- Nathan Pierce asked about what the process would be if additional sludge would be required to be removed. I responded that the agreement requires a notification from NCUC when 90% of the sludge is removed and that the possibility of additional sludge being removed could be addressed at that time.
- I stated that soil testing should be considered if the sludge will be applied to land that hasn't been tested in accordance with the EPA 503 requirements and that NCUC is ultimately responsible for following the requirements.
- I stated that Sheri, Nathan, and I visited the site on 5/16/18 and that the sludge removal plan appeared to be appropriate.
- At the conclusion of addressing the items in the agenda, there were no questions.

If there are any questions or additional comments, please contact me at (406) 247-7094.

Attachments: Pre-Construction Meeting Agenda

James Courtney, EIT

CC: Jim White, PE, Billings Area IHS, SFC Director

Project File: BI 16-N39

Lame Deer Lagoon Sludge Removal

IHS Project: BI 16-N39

PRE-CONSTRUCTION MEETING AGENDA

May 17, 2018

INTRODUCTIONS:

CONTACTS:

Project Engineer / Manager:
James Courtney, EIT
Billings Area Indian Health Service
2900 4th Ave. N.
Billings, MT 59101
James.Courtney@IHS.gov
(406) 247-7094

IHS SFC Director:

Jim White Billings Area Indian Health Service 2900 4th Ave. North Billings, MT 59101 Jim.White@IHS.gov (406) 247-7096

IHS Engineer:

Quentin Allen, PE Billings Area Indian Health Service 2900 4th Ave. N. Billings, MT 59101 Quentin.Allen@IHS.gov (406) 247-7092

Northern Cheyenne TERO Office:

(406) 477-6287

Construction Inspector:

George Cummins
Lame Deer Service Unit
Indian Health Service
George.Cummins@IHS.gov
(406) 477-4420

NCUC General Manager:

Sheri Bement Northern Cheyenne Utilities Commission Bement.Sheri@gmail.com (406) 208-8647

Subcontractor:

Nathan Pierce ADAMAS PLLC 16550 Cottontail Trail Shepherd, MT, 59079 adamas.mt.406@gmail.com (406) 697-3022

PROJECT OVERVIEW:

- o Project funded by EPA
- The Fixed Price Agreement is between the Northern Cheyenne Tribe and the Indian Health Service.
- o Project Duration: 60 Days
- Date of Substantial Completion: 14 consecutive calendar days after notice to proceed PROJECT SCOPE
- o Removal, transport, and application of 1,000,000 gal of sludge from Cell #2 of the Lame Deer lagoon

REVIEW OF PROJECT CONTRACT DOCUMENTS:

- NCUC and any of NCUC's Subcontractors doing work on this project are required to obtain applicable registration with the Northern Cheyenne Tribal Employment Rights Office ("TERO").
- Storage areas. Must be obtained and paid for by NCUC. Areas shall be authorized or approved by SFC.
- Safety: NCUC will be required to assign a "competent person" to ensure that construction is performed in accordance with ALL OSHA safety requirements. Contractor shall have an accident prevention and safety program.
- Work Days and Hours: Construction work will not be permitted on Saturdays, Sundays, nor on Federal, State, or Tribal holidays, unless approved in writing by Engineer. Notice shall be written at least three days in advance.

TECHNICAL PROVISIONS:

- The Construction General Permit (CGP) and the Storm Water Pollution Prevention Plan (SWPPP) is incidental to the project and is to be provided as a submittal to the engineer.
 REFERENCE: http://water.epa.gov/polwaste/npdes/index.cfm
- o Cleanup of the site and final grading is incidental to the contract.

PLANS:

- Existing Utilities: contractor is responsible for locating all existing utilities prior to any excavation.
- Cleanup of the site and final grading is incidental to the contract.

CONTRACTOR QUESTIONS:

SITE VISIT:

ANALYTICAL SUMMARY REPORT

August 02, 2018

Adamas Construction 16550 Cottontail Trail Shepherd, MT 59079-3008

Work Order:

B18072386

Project Name:

Lame Deer Lagoon Sludge Remove

Energy Laboratories Inc Billings MT received the following 2 samples for Adamas Construction on 7/26/2018 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B18072386-001	Soil Sample	07/26/18 11:32 07/26/18	Soil	Moisture Nitrate as N, KCL Extract pH, Saturated Paste Phosphorus-Olsen Saturated Paste Extraction ASA
B18072386-002	Sludge Sample	07/26/18 14:45 07/26/18	Sludge	Metals by ICP/ICPMS, Total or Soluble Bacteria, Fecal Coliform - MPN Mercury in Solid By CVAA Moisture Ammonia as N, KCL Extract Nitrate as N, KCL Extract Total Kjeldahl Nitrogen Percent Moisture Total Metals Digestion by SW30508 Mercury Digestion by SW7471B Solids Content

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by Jillian B. Miller

Date: 2018.08.02 17:14:23 -06:00

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Adamas Construction

Project:

Lame Deer Lagoon Sludge Remove

Lab ID:

B18072386-001

Client Sample ID: Soil Sample

Report Date: 08/02/18

Collection Date: 07/26/18 11:32

DateReceived: 07/26/18

Matrix: Soil

Analyses	Result Units	G Qualifiers	MCL RL QCL		Analysis Date / By
PHYSICAL CHARACTERISTICS Moisture (As Received)	10.4 wt%		0.2	D2974	07/30/18 07:41 / srm
SATURATED PASTE EXTRACT pH, sat. paste	7.3 s.u.		0.1	ASA10-3	07/31/18 08:17 / srm
CHEMICAL CHARACTERISTICS Phosphorus, Olsen Nitrate as N, KCL Extract	8 mg/k 6 mg/k	•	1	ASA24-5 ASA33-8	08/01/18 08:36 / srm 08/01/18 09:52 / srm

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Adamas Construction

Project:

Lame Deer Lagoon Sludge Remove

Lab ID:

B18072386-002

Client Sample ID: Sludge Sample

Report Date: 08/02/18

Collection Date: 07/26/18 14:45 **DateReceived:** 07/26/18

Matrix: Sludge

					MCL/	
Analyses	Result	Units	Qualifiers	RL	QCL Method	Analysis Date / By
MICROBIOLOGICAL						
Bacteria, Fecal Coliform, as Received	1100	mpn/g		2	A9221 E	07/26/18 16:54 / jh
Bacteria, Fecal Coliform, Dry Basis	28000			2	A9221 E	07/26/18 16:54 / jh
PHYSICAL CHARACTERISTICS						
Moisture	96.0	wt%		0.20	A2540 G	07/31/18 11:24 / ptz
Solids, Total	3.96	wt%		0.01	A2540 G	07/31/18 11:24 / ptz
CHEMICAL CHARACTERISTICS						
mmonia as N, KCL Extract	1950	mg/kg-dry		200	ASA33-7	08/01/18 09:56 / srm
itrate as N, KCL Extract	ND	mg/kg-dry		30	ASA33-8	08/01/18 09:58 / srm
otal Kjeldahl Nitrogen	19800	mg/kg-dry		300	ASA31-3	08/01/18 14:04 / srm
IETALS, TOTAL - EPA SW846						
rsenic	ND	mg/kg-dry		6	SW6020	07/30/18 22:31 / car
admium	1.4	mg/kg-dry		0.5	SW6020	07/30/18 22:31 / car
hromium	25	mg/kg-dry		20	SW6020	07/30/18 22:31 / car
opper	334	mg/kg-dry		3	SW6020	07/30/18 22:31 / car
ead	29	mg/kg-dry		4	SW6020	07/30/18 22:31 / car
lercury	7.2	mg/kg-dry		0.2	SW7471B	08/02/18 15:37 / jag
lolybdenum	16.1	mg/kg-dry		0.5	SW6020	07/30/18 22:31 / car
ickel	18	mg/kg-dry		3	SW6020	07/30/18 22:31 / car
elenium	13	mg/kg-dry		10	SW6020	07/30/18 22:31 / car
linc	592	mg/kg-dry		6	SW6020	07/30/18 22:31 / car

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Work Order: B18072386

Analyte	Count Result	Units	RL	%REC Low Limit High Limit	RPD	RPDLimit	Qual
Method: A2540 G						Batch:	R304812
Lab ID: B18071962-001A D	UP Sample Duplic	ate		Run: BAL HZW1_180731C		07/31/	18 11:24
Moisture	2.62	wt%	0.20				
Lab ID: B18071962-001A D	OUP Sample Duplic	ate		Run: BAL HZW1_180731C		07/31/	18 11:24
Solids, Total	97.4	wt%	0.01		0.2	10	
Lab ID: B18072636-001A D	OUP Sample Duplic	ate		Run: BAL HZW1_180731C		07/31/	18 11:24
Solids, Total	86.2	wt%	0.01		0.1	10	
Lab ID: MBLK_MOISTHZW	/18 Method Blank			Run: BAL HZW1_180731C		07/31/	18 11:24
Solids, Total	0.02	wt%	0.01				



Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Work Order: B18072386

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD RPDLimit	Qual
Method:	SW6020							Analytic	al Run: ICPMS207-B	180730
Lab ID:	ICSA	9 Inte	erference C	heck Sample	Α					_ /18 17:5!
Arsenic		-	0.000109	mg/L	0.0010				01,00	
Cadmium		0	.0000586	mg/L	0.0010					
Chromium			0.00102	mg/L	0.0010					
Copper			0.000137	mg/L	0.0010					
Lead		0	.0000250	mg/L	0.0010					
Molybdenu	ım		0.778	mg/L	0.0010	97	80	120		
Nickel		0	.0000331	mg/L	0.0010	٠.	00	120		
Selenium			0.000294	mg/L	0.0010					
Zinc			0.000294	mg/L	0.0027					
ab ID:	ICSAB	9 Inte	erference Cl	neck Sample	AB				07/20	/18 17:59
Arsenic			0.00990	mg/L	0.0010	99	70	130	07/30	/10 1/:58
Cadmium			0.00979	mg/L	0.0010	98	70	130		
Chromium			0.0203	mg/L	0.0010	102	70	130		
Copper			0.0193	mg/L	0.0010	96				
Lead			0.000224	mg/L	0.0010	90	70	130		
Molybdenu	m	·	0.803	mg/L	0.0010	100	70	400		
Nickel			0.0200	mg/L	0.0010	100	70	130		
Selenium			0.0200	mg/L	0.0010	100	70	130		
Zinc			0.0105	mg/L	0.0010	101 105	70 70	130 130		
ab ID:	QCS	9 Initia	al Calibratio	n Verification	Standard				07/00/	40.47.4
Arsenic			0.0510	mg/L	0.0010	102	90	110	07/30/	18 17:17
Cadmium			0.0253	mg/L	0.0010	101	90	110		
Chromium			0.0500	mg/L	0.0010	100	90			
Copper			0.0513	mg/L	0.0010	103		110		
Lead			0.0502	mg/L	0.0010	100	90	110		
Molybdenur	m		0.0494	mg/L	0.0010		90	110		
Nickel			0.0509	mg/L		99	90	110		
Selenium			0.0309	mg/L	0.0010 0.0010	102 99	90	110		
Zinc			0.0512	mg/L	0.0010	102	90 90	110 110		
Method:	SW6020								Datah	: 123858
ab ID:	MB-123858	9 Meth	nod Blank				Run: ICPMS	207-B_180730E		i: 123858 18 21:31
Arsenic			ND	mg/kg	0.3			207-2_1007301	017307	10 21.31
Cadmium			ND	mg/kg	0.01					
Chromium			ND	mg/kg	0.10					
Copper			ND	mg/kg	0.2					
_ead			ND	mg/kg	0.2					
/lolybdenun	n		0.05	mg/kg	0.02					
Nickel			ND	mg/kg	0.02					
Selenium			ND	mg/kg						
Zinc			0.3		0.5					
			0.5	mg/kg	0.3					

Qualifiers:

RL - Analyte reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18
Work Order: B18072386

Project: Lame Deer Lagoon Sludge Remove

Analyte		Count Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020			= 4					Batcl	h: 123858
Lab ID:	B18071109-023ADIL	9 Serial Dilution	n			Run: ICPM	S207-B_180730B		07/30/	/18 22:39
Arsenic		20.0	mg/kg-dry	4.2					10	N
Cadmium		1.93	mg/kg-dry	1.0				3.1	10	
Chromium		4290	mg/kg-dry	1.3				13	10	R
Copper		89.5	mg/kg-dry	2.4				9.2	10	
Lead		1130	mg/kg-dry	2.9				0.5	10	
Molybdenu	m	10.9	mg/kg-dry	1.0				2.5	10	
Nickel		30.9	mg/kg-dry	2.1				7.4	10	
Selenium		29.4	mg/kg-dry	6.7					10	N
Zinc		199	mg/kg-dry	4.1				12	10	R
Lab ID:	B18071109-023APDS	61 9 Post Digesti	on/Distillation	Spike			S207-B_180730B		07/30	/18 22:43
Arsenic		24.1	mg/kg-dry	1.0	82	75	125			
Cadmium		8.16	mg/kg-dry	1.0	93	75	125			
Chromium		3880) mg/kg-dry	1.0		75	125			Α
Copper		82.9	mg/kg-dry	1.0		75	125			Α
Lead		1120) mg/kg-dry	1.0		75	125			Α
Molybdenu	m	17.7	mg/kg-dry	1.0	96	75	125			
Nickel		33.4	l mg/kg-dry	1.0		75	125			Α
Selenium		32.1	l mg/kg-dry	1.4		75	125			Α
Zinc		172	2 mg/kg-dry	1.0		75	125			Α
Lab ID:	B18071109-023AMS	3 9 Sample Mat	rix Spike			Run: ICPM	S207-B_180730E	1	07/30	/18 22:47
Arsenic		141	l mg/kg-dry	4.0	97	75	125			
Cadmium		59.2	2 mg/kg-dry	1.0	92	75	125			
Chromium		4190	mg/kg-dry	1.2		75	125			Α
Copper		203	3 mg/kg-dry	2.3	97	75	125			
Lead		1220) mg/kg-dry	2.8		75	125			Α
Molybdenu	m	12:	3 mg/kg-dry	1.0	89	75	125			
Nickel		150) mg/kg-dry	2.0	97	75	125			
Selenium		141	7 mg/kg-dry	6.4	96	75	125			
Zinc		29:	5 mg/kg-dry	3.9	94	75	125			
Lab ID:	B18071109-023AMS	D 9 Sample Ma	trix Spike Dup	olicate		Run: ICPM	IS207-B_180730E	3	07/30)/18 22:51
Arsenic		14:	9 mg/kg-dry	4.0	104	75	125	5.7	20	
Cadmium		63.	7 mg/kg-dry	1.0	99	75	125	7.3	20	
Chromium		439	0 mg/kg-dry	1.2		75	125	4.6	20	Α
Copper		21	6 mg/kg-dry	2.3	107	75	125	6.0	20	
Lead			0 mg/kg-dry			75	125	4.7	20	Α
Molybdenu	ım	13	2 mg/kg-dry	1.0	96	75	125	6.9	20	
Nickel		15	7 mg/kg-dry	2.0	102	75	125	4.2	20	
Selenium		15	4 mg/kg-dry	6.4	101	75	125	4.5	20	
Zinc		31	2 mg/kg-dry	3.9	108	75	125	5.6	20	
Lab ID:	SRM3-123858	9 Standard R	eference Mat	erial		Run: ICPM	1S207-B_180730F	3	07/30)/18 22:55
Arsenic		18	4 mg/kg	1.6	94	71	120			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

 $[\]mbox{N}$ - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Work Order: B18072386

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Batcl	h: 12385
Lab ID: SRM3-1238	358 9 Sta	ndard Refe	rence Material			Run: ICPM	S207-B_180730B		07/30/	18 22:55
Cadmium		104	mg/kg	1.0	105	73.2	120			
Chromium		115	mg/kg	1.0	98	73	120			
Copper		139	mg/kg	1.0	101	76	120			
Lead		109	mg/kg	1.1	103	74	120			
Molybdenum		119	mg/kg	1.0	94	66	120			
Nickel		88.7	mg/kg	1.0	103	72	120			
Selenium		207	mg/kg	2.5	101	71	120			
Zinc		264	mg/kg	1.5	114	65	120			

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Work Order: B18072386

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW7471B							Analytica	l Run: l	HGCV202-B_	180802A
Lab ID:	ICV	Init	ial Calibrati	on Verification St	andard					08/02/	18 14:42
Mercury			0.00200	mg/kg	1.0	100	90	110			
Method:	SW7471B						-			Batch	n: 123944
Lab ID:	MB-123944	Me	thod Blank				Run: HGCV	'202-B_180802A		08/02/	18 14:47
Mercury			ND	mg/kg	0.005						
Lab ID:	LCS3-123944	Lat	ooratory Co	ntrol Sample			Run: HGCV	'202-B_180802A		08/02/	18 14:49
Mercury			0.219	mg/kg	1.0	110	80	120			
Lab ID:	B18072618-001ADIL	Sei	rial Dilution				Run: HGCV	202-B_180802A		08/02/	18 14:59
Мегсигу			0.0759	mg/kg-dry	1.0					10	
Lab ID:	B18072618-001AMS	3 Sai	mple Matrix	Spike			Run: HGCV	202-B_180802A		08/02/	18 15:01
Mercury			0.297	mg/kg-dry	1.0	106	80	120			
Lab ID:	B18072618-001AMSI	D Sai	mple Matrix	Spike Duplicate			Run: HGCV	'202-B_180802A		08/02/	18 15:03
Mercury			0.300	mg/kg-dry	1.0	106	80	120		20	

Qualifiers:

RL - Analyte reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18 Work Order: B18072386

Analyte	Result Units	RL %REC Low Limit High Limit RPD RPDLimit Qual
Method: ASA10-3		Batch: 1239D5
Lab ID: LCS-R304729 pH, sat. paste	Laboratory Control Sample 7.00 s.u.	Run: MISC-SOIL_180731A 07/31/18 08:17 0.10 93 90 110
Lab ID: B18072386-001A DUP pH, sat. paste	Sample Duplicate 7.40 s.u.	Run: MISC-SOIL_180731A 07/31/18 08:17 0.10 1.4 10

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18

Work Order: B18072386

Analyte	Result Units	RL %REC Low Limit High Limit RPD RPDLimit Qual
Method: ASA24-5		Batch: OM_8-1-2018_08-28-40AM
Lab ID: LCS Phosphorus, Olsen	Laboratory Control Sample 46 mg/kg	Run: FIA205-B_180801A 08/01/18 08:31 1.0 104 70 130
Lab ID: B18072386-001ADUP Phosphorus, Olsen	Sample Duplicate 7.3 mg/kg	Run: FIA205-B_180801A 08/01/18 08:38 1.0 4.5 30
Lab ID: B18072386-001AMS Phosphorus, Olsen	Sample Matrix Spike 19 mg/kg	Run: FIA205-B_180801A 08/01/18 08:40 1.0 109 70 130

Qualifiers:

RL - Analyte reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18 **Work Order:** B18072386

Analyte	Result Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA31-3							Batch:	R304872
Lab ID: B18072386-002A DUP Total Kjeldahl Nitrogen	Sample Duplicate 21200 mg/kg-dry	250		Run: MISC	C-SOIL_180801A	6.9	08/01 30	/18 14:04
Lab ID: LCS-1808011404 Total Kjeldahl Nitrogen	Laboratory Control Sample 504 mg/kg	10	86	Run: MISC	C-SOIL_180801A 150		08/01	/18 14:04
Lab ID: B18072386-002A MS Total Kjeldahl Nitrogen	Sample Matrix Spike 90500 mg/kg-dry	250	70	Run: MISC 70	-SOIL_180801A 130		08/01	/18 14:07

Qualifiers:

RL - Analyte reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18
Work Order: B18072386

Analyte		Result Units	RL	%REC	Low Limit Hig	h Limit	RPD	RPDLimit	Qual
Method:	ASA33-7					Bato	h: OM_	8-1-2018_09	-47-55AM
Lab ID: Ammonia a	LCS as N, KCL Extract	Laboratory Control Sample 16.8 mg/kg	1.0	83	Run: FIA205-B_ 70	180801A 1 3 0		08/01	/18 09:49
Lab ID: Ammonia a	B18072386-002ADUP as N, KCL Extract	Sample Duplicate 2000 mg/kg-dry	150		Run: FIA205-B_	_180801A	2.3	0 8 /01 30	/18 09:56
Lab ID: Ammonia a	B18072386-002AMS as N, KCL Extract	Sample Matrix Spike 3500 mg/kg-dry	160	97	Run: FIA205-B_ 70	_180801A 130		08/01	/18 09:57

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18 **Work Order:** B18072386

Analyte	Result Units	RL %REC Low Limit High Limit RPD RPDLimit Qual
Method: ASA33-8		Batch: OM_8-1-2018_09-47-55AM
Lab ID: LCS Nitrate as N, KCL Extract	Laboratory Control Sample 10.7 mg/kg	Run: FIA205-B_180801A 08/01/18 09:49 1.0 98 70 130
Lab ID: B18072386-002ADUP Nitrate as N, KCL Extract	Sample Duplicate ND mg/kg-dry	Run: FIA205-B_180801A 08/01/18 09:59
Lab ID: B18072386-002AMS Nitrate as N, KCL Extract	Sample Matrix Spike 289 mg/kg-dry	Run: FIA205-B_180801A 08/01/18 10:00 26 109 70 130

B18072386

Adamas Construction

Work Order Receipt Checklist

Login completed by:	Tabitha Edwards		Date	Received: 7/26/2018	
Reviewed by:	BL2000\raschim		Re	ceived by: snk	
Reviewed Date:	7/31/2018		Car	rier name: Hand Del	
Shipping container/cooler in	good condition?	Yes ✓	No 🗌	Not Present	
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes 🗌	No 🗌	Not Present ✓	
Custody seals intact on all s	ample bottles?	Yes [No 🗌	Not Present ✓	
Chain of custody present?		Yes 🗹	No 🗌		
Chain of custody signed who	en relinquished and received?	Yes [✓]	No 🗌		
Chain of custody agrees witl	h sample labels?	Yes 🗹	No 🗌		
Samples in proper container	/bottle?	Yes ✓	No 🗌		
Sample containers intact?		Yes √	No 🗌		
Sufficient sample volume for	r indicated test?	Yes 🗹	No 🗌		
All samples received within I (Exclude analyses that are c such as pH, DO, Res CI, Su	onsidered field parameters	Yes 🗸	No 🗌		
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗸	Not Applicable	
Container/Temp Blank temp	erature:	°C On Ice			
Water - VOA vials have zero	headspace?	Yes	No 🗌	No VOA vials submitted	
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🗸	

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

The temperature of the sample(s) for shipping container 1 was 30.8°C and the Temperature Blank temperature for shipping container 2 was 1.0°C.



Chain of Custody & Analytical Request Record

must our reopie. mist our cata,		www	<u>.energylat</u>).com				Page of
Account Information (Billing information)		Report Info	rmation (if	different than Ac	count Information)		Com	ments
Company/Name Adamas Construction		Company/Name	Adam	s Con 6	traction		1	
Contact Nathan Pierce Phone 406-697-3022		Contact NA	than Pi	erce	Hackion		11	
Phone 406-697-3022		Phone (,	106-69	7- 302.	2		11	
Mailing Address		Mailing Address					11	
City, State, Zip		City, State, Zip					11	
Email Alamas, Mi	: 4/06@Gmil	Email Ada	mas, MI	T. 4/04 (d)	amail. (on	11 -	
Receive invoice		Receive Report (11	
Purchase Order Quote Bottle Ord	ег	Special Report/Form		D/EDT (contact la	aboratory) 🗆 Other_			
Project Information		Matrix Codes		A	nalysis Reque	sted	1	7
Project Name, PWSID, Permit, etc. Lane Deer Lagoon &	110	A - Air		14	The state of the s			All turnaround times are
Sampler Name LD Studge Sampler Phase Land		W- Water S - Soils/					ĺ	standard unless marked as RUSH.
Sampler Name LD SLudge Sampler Phone 406-		Solids V - Vegetation						Energy Laboratories
	Yes □ No	B - Bioassay O - Other					Pa	MUST be contacted prior to RUSH sample submittal for
MINING CLIENTS, please Indicate sample type. "If ore has been processed or refined, call before sending.		DW - Orinking Water					Attached	charges and scheduling – See Instructions Page
☐ Byproduct 11 (e)2 material ☐ Unprocessed one (NOT ground of								Oce instructions rage
Sample Identification (Name, Location, Interval, etc.) Date	ollection Time	Number of Containers (See Codes Above)					See	RUSH TAT
1 Soil Semble 7 pu	1/2 11:32m	,					X	X B18078386-001
2 Sudge Sample 7/26	18 2:450						X	X m2
3								
4								
5								
6								
7								
8								
9								
10								
Custody Record MUST Record MUS	Signat	37	F	Received by (print)		Date/Time		Signature
Record MUST Nathan Vierce 7/36 / be signed Relinquished by (print) Date/Time	Signati	ure	F	Received by Labor	atory (print)	Date/Dma -	. 1. 2	Signature
		LABOR	ATORY USE O		. 15	7-26-18	1647	Signature Saloh Barl
Shipped By Cooler ID(s) Custody Seals Intact Y N C B Y N	Receipt Temp	Temp Blank	On ice Y N	Pa	yment Type Check	Amount \$	Rece	elpt Number (cash/check only)

8- # 866 586 1175 P 9 " 877 472 0711

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Indian Health Service

Project:

Lame Deer Lagoon

Lab ID:

B17060708-001

Client Sample ID: 1-Pivot

Report Date: 06/16/17

Collection Date: 06/06/17 14:00

DateReceived: 06/07/17

Matrix: Soil

Analyses	Result	Units	Qualiflers	RL	MCL/	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS						D0074	20110117 20 00 1
Moisture (As Received)	12.1	wt%		0.2		D2974	06/12/17 00:00 / srm
SATURATED PASTE EXTRACT							
bH, sat. paste	8.2	s.u.		0.1		ASA10-3	06/16/17 13:13 / srm
CHEMICAL CHARACTERISTICS							
Phosphorus, Olsen	2	mg/kg		1		ASA24-5	06/16/17 11:04 / srm
Nitrate as N, KCL Extract	9	mg/kg		1		ASA33-8	06/15/17 13:36 / srm

Lab ID:

B17060708-002

Client Sample ID: 2-Field

Collection Date: 06/06/17 14:20

DateReceived: 06/07/17

Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS Moisture (As Received)	9.2	wt%		0.2		D2974	06/12/17 00.00 / srm
SATURATED PASTE EXTRACT pH, sat. paste	8.3	s.u.		0.1		ASA10-3	06/16/17 13:13 / srm
CHEMICAL CHARACTERISTICS						40404.	
Phosphorus, Olsen Nitrate as N, KCL Extract	2 ND	mg/kg ing/kg		1		ASA24-5 ASA33-8	06/16/17 11:06 / srm 06/15/17 13:37 / srm

Lab ID:

B17060708-003

Client Sample ID: 3-Field

Collection Date: 06/06/17 14:30

DateReceived: 06/07/17

Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCT.	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS Moisture (As Received)	13.6	wt%		0,2		D2974	06/12/17 00:00 / srm
SATURATED PASTE EXTRACT pH, sat. paste	8.4	s.u.		0.1		ASA10-3	06/16/17 13:13 / sm
CHEMICAL CHARACTERISTICS Phosphorus, Oisen Nitrate as N, KCL Extract		mg/kg mg/kg		1		ASA24-5 ASA33-8	06/16/17 11:08 / srm 06/15/17 13:37 / srm



RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.



T 800 735 4489

- 888 235 6515 -- 1- 866 686 7175 ··· 877 472 0711





Client: Project:

Indian Health Service Lame Deer Lagoon

Lab ID:

B17060160-008

Client Sample ID: 503-1

Report Date: 06/13/17

Collection Date: 06/01/17 15:00 DateReceived: 06/01/17

Matrix: Sludge

						max p
Analyses	Result	Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
IICROBIOLOGICAL						, , , , , , , , , , , , , , , , , , , ,
acteria, Fecal Coliform, as Received acteria, Fecal Coliform, Dry Basis		mpn/g mpn/g		2	A9221 E A9221 E	06/02/17 09:58 / fap
HYSICAL CHARACTERISTICS				_	A9221 E	06/02/17 09:58 / fap
loisture olids. Total	93.9 6 13	wt% wt%		0.20 0.01	A2540 G A2540 G	06/02/17 11:35 / dah 06/02/17 11:35 / dah
HEMICAL CHARACTERISTICS						00/02/17 [1.337 0af]
mmonia as N, KCL Extract itrate as N, KCL Extract otal Kjeldahl Nitrogen	ND	mg/kg-dry mg/kg-dry mg/kg-dry		20 20 200	ASA33-7 ASA33-8	06/07/17 11:57 / srm 06/07/17 11:57 / srm
ETALS, TOTAL - EPA SW846				200	ASA31-3	06/07/17 13:52 / srm
rsenic admium hromium opper ead ercury olybdenum ckel elenium	2.4 23 325 19 1.0 14.5 18	mg/kg-dry mg/kg-dry mg/kg-dry mg/kg-dry mg/kg-dry mg/kg-dry mg/kg-dry mg/kg-dry mg/kg-dry		0.5 0.5 1 2 2 0.2 0.5 1 0.6 4	SW6020 SW6020 SW6020 SW6020 SW6020 SW7471B SW6020 SW6020 SW6020 SW6020	06/12/17 01:36 / ipv 06/12/17 01:36 / ipv 06/12/17 01:36 / ipv 06/12/17 01:36 / jpv 06/12/17 01:36 / jpv 06/09/17 11:21 / jh 06/12/17 01:36 / jpv 06/12/17 01:36 / jpv 06/12/17 01:36 / jpv



RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level ND - Not detected at the reporting limit.



ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC <adamas.mt.406@gmail.com>

Update LD lagoon project

ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC

Thu, Jun 28, 2018 at 7:59

<adamas.mt.406@gmail.com>

To: voaxaa@hotmail.com

President Killsback.

It has come to our attention that your office has not been given timely updates on the progress of the projects that involve the Northern Cheyenne Utilities Commission and our company ADAMAS Construction.

Please find the email sent Tuesday June 26th to Mrs. Sheri Bement and the staff of IHS. I will also forward other updates sent and included your office on all update to ensure timely communication.

I also respectfully request a meeting between you and myself, so the we can discuss the situation between our company and NCUC.

Best regards,

Nathan Pierce

Adamas Construction and Development Services PLLC

Forwarded message -

From: ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC <adamas.mt.406@gmail.com>

Date: Tue, Jun 26, 2018, 8:59 AM Subject: Update LD lagoon project

[Quoted text hidden] [Quoted text hidden]

4 attachments



20180625_111556.jpg 4849K



20180625 111628.jpg 2821K

20180625_111736.jpg 4581K





20180625_134126.jpg 6340K



ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC <adamas.mt.406@gmail.com>

Update LD lagoon project

ADAMAS CONSTRUCTION And DEVELOPMENT SERVICES PLLC

Fri, Jul 13, 2018 at 7:42

<adamas.mt.406@gmail.com>

To: "Courtney, James (IHS/BIL)" <James.Courtney@ihs.gov>

Cc: "Allen, Quentin B (IHS/BIL)" <Quentin.Allen@ihs.gov>, "White, Jim (IHS/BIL)" <Jim.White@ihs.gov>

James.

Thank you for the update. We did not go to the jobsite Tuesday as we had an issue with our work truck. (See attached Photo)

We pumped and dewatered a significant amount of sludge on Wednesday. Our average cutter head depth across half the pond started out at 43inches, we are now at an average of 67 inches below the surface of the water.

We also took a nitrate sample from the application site and delivered it to Energy Lab in Billings. The samples were taken from 5 different areas of the land site, with GPS coordinates recorded for each sample location. We spoke Sheri that day and requested that she file a eNOI with the EPA NPDES system, to update the permit to allow land application.

Thursday, due to our work truck being damaged beyond reasonable repair, we were required to go to the bank, apply for funding and purchase a new work truck.

We will be on site today pumping sludge. We should be ready to begin hauling and application next week.

Best regards,

Nathan Pierce [Quoted text hidden]